

SOLAR MODULES

SunLeaf I

POLYCRYSTALLINE GLASS / GLASS MODULE.

GStech60-6-260-280Wp-HPP-GG-10.

COMMITMENT TO QUALITY, PRODUCTIVITY & SUSTAINABILITY



Key features:



5 BUS BAR

5 BUS BAR SOLAR CELL

5 bus bar solar cell adopts new technology to improve the efficiency of modules and offers a better aesthetic appearance, making it perfect for ground and rooftop installation.



Less maintenance

LESS MAINTENANCE REQUIRED

Reduced soiling and snow coverage requires less maintenance and enhances fire safety.



Low Light

LOW-LIGHT PERFORMANCE

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



2400 Pa | 5400 Pa

SEVERE WEATHER RESILIENCE

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Resistant

DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS

High salt mist and ammonia resistance certified by KIWA.



30 Years

30-YEARS LINEAR PERFORMANCE WARRANTY

15-years limited warranty for materials and workmanship and ASCT guarantee that each module shall deliver the following minimum output as shown in the datasheet for each module: **0.5% annual degradation over 30 years.**

PHYSICAL PARAMETERS

| | |
|--------------------|---|
| Solar cell | Polycrystalline 156.75 X 156.75 mm |
| Cell configuration | 60 cell (10 x 6) |
| Module dimension | 1662 x 990 x 5.5 mm |
| Weight | 20 kg |
| Front glass | 2 mm, high transmission, low iron, tempered ARC glass |
| Back glass | 2 mm, tempered glass |
| Interlayer | 0.45 EVA (white) |
| J-Box | IP67, 1000VDC, 3 bypass diodes |
| Cables | 4.0 sqmm (12AWG), 500 mm length (customer demand) |
| Connector | IP67 MC4 or its compatible |

ELECTRICAL PARAMETERS (STC)

| TYPE | ASCT60-6-260P | ASCT60-6-265P | ASCT60-6-270P | ASCT60-6-275P | ASCT60-6-280P |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| Rated maximum power at STC (Wp) | 260 | 265 | 270 | 275 | 280 |
| Open circuit voltage Voc (V) | 37.9 | 38.1 | 38.3 | 38.5 | 38.7 |
| Maximum power voltage Vmpp (V) | 30.9 | 31.0 | 31.1 | 31.2 | 31.3 |
| Short circuit current Isc (A) | 8.92 | 9.01 | 9.10 | 9.19 | 9.28 |
| Maximum power current Imp (A) | 8.42 | 8.55 | 8.69 | 8.82 | 8.95 |
| Module efficiency (%) | 15.80 | 16.10 | 16.40 | 16.71 | 17.01 |

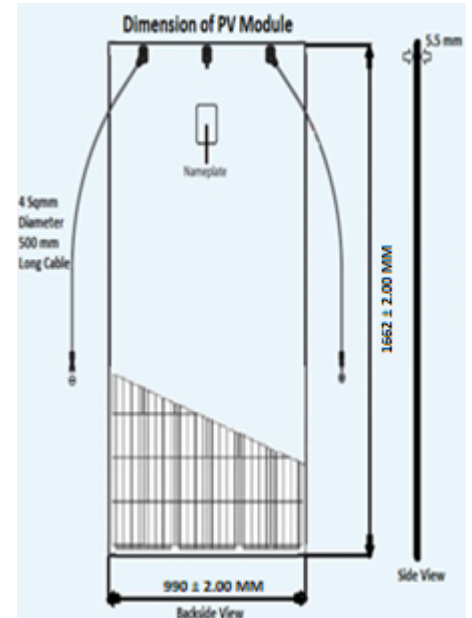
STC: Irradiance 1000W/m², cell temperature 25°C, air mass 1.5

ELECTRICAL PARAMETERS (NOCT)

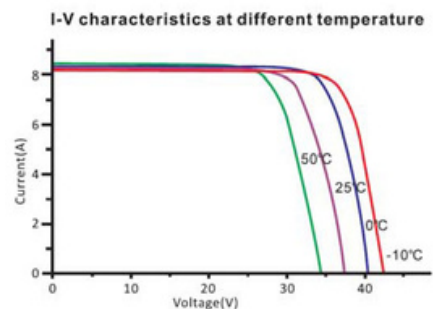
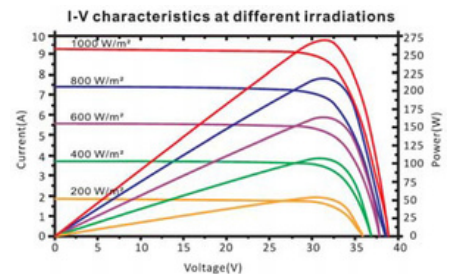
| TYPE | ASCT60-6-260P | ASCT60-6-265P | ASCT60-6-270P | ASCT60-6-275P | ASCT60-6-280P |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| Max power (Pmax) [W] | 193 | 195 | 198 | 201 | 204 |
| Open circuit voltage (Voc) [V] | 35.2 | 35.3 | 35.4 | 35.5 | 35.6 |
| Max power voltage (Vmp) [V] | 27.9 | 28.0 | 28.1 | 28.2 | 28.3 |
| Short circuit current (Isc) [A] | 7.25 | 7.38 | 7.50 | 7.62 | 7.74 |
| Max power current (Imp) [A] | 6.92 | 6.97 | 7.05 | 7.13 | 7.21 |

NOCT: Under normal operating cell temperature, irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s

DIMENSION OF PV MODULE UNIT



I-V CURVE



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TEMPERATURE COEFFICIENT AND PARAMETERS

| | |
|---|----------------|
| Nominal operating cell temperature (NOCT) | 45°C ± 2°C |
| Temperature coefficient of Pmax | -0.385%/°C |
| Temperature coefficient of Voc | -0.32%/°C |
| Temperature coefficient of Isc | 0.055%/°C |
| Operating temperature | -45°C~+85°C |
| Maximum system voltage | 1000VDC |
| Limiting reverse current | 15A |
| Maximum series fuse rating | 15A |
| Power tolerance (W) | 0/+3% |
| Application class | Class A |
| Wind and snow front load | Up to 5,400 Pa |
| Wind back load | 2,400 Pa |

PACKAGING CONFIGURATION

| | 40ft | 20ft |
|---|--------------------|--------------------|
| Number of modules per container | 780 | 360 |
| Number of modules per pallet | 30 | 30 |
| Number of pallets per container | 26 | 12 |
| Packing box dimension (L x W x H) in mm | 1770 x 1140 x 1184 | 1770 x 1140 x 1183 |
| Box gross weight (Kg) | 753 | 753 |

